

Proposed Amendment for examiner's amendment:

1. (Currently amended) A system for software application development in a portal environment, the system including a computer comprising at least one processor and at least one memory, the system comprising:

a framework comprising a design-time environment and a run-time environment, the framework adapted to switch between the design-time environment and the run-time environment;

a the design-time environment that allows enabling the design and update of a portal application, said design-time environment including

a Java Server Page design editor component to create JSP pages, and

a webflow design editor component providing a graphical interface with a visual display of portal application flow indicating possible transitions between pages of the portal application, the webflow design editor component being used to create and update a webflow file using the graphical interface, the webflow file including annotations, wherein some of the annotations declare possible destinations of a flow transition, and other annotations dictate what state is shared between which JSP pages;

a wherein the run-time environment that runs said portal application, said run-time environment including

~~a control container and lifecycle driver component,~~

~~a control factory component, and,~~

an application flow and state management component using the annotations of the webflow file to determine:

the state and current page of the portal application and

when to execute at least one of the JSP pages,

wherein the run-time environment deploys the at least one of the JSP pages as indicated by the application flow and management component;

~~wherein the system can be switched from the design time environment to the run-time environment, to automatically effectuate changes from one environment to the other~~

wherein switching to the run-time environment includes enabling the user to deploy the portal application as per the webflow file and the JSPs, the webflow file and the JSPs being defined and modified for the deployment instance; and

wherein switching to the design time environment includes enabling the user to access to the Java Server Page design editor component to modify one of the JSPs or to access the webflow design editor and update at least one of the annotations of the webflow file; wherein at least one webflow file is updatable and reusable for one or more the portal application runs; wherein at least one change made in one of the webflow file is dynamically reflected in the webflow editor component.

Claims 2-4 (Canceled)

5. (Currently amended) The system of claim 1 wherein the a control container and lifecycle driver component is used to determine the look-and-feel of the portal application interface.

6. (Currently amended) The system of claim 1 wherein the a control factory component uses a factory for control creation, and subsequently drives control lifecycles during portal application request handling.

Claim 7 (Canceled)

8. (Currently amended) A method for software application development in a portal environment, comprising the steps of:

providing a framework comprising a design-time environment and a run-time environment, the framework adapted to switch between the design-time environment and the run-time environment;

~~providing a~~ wherein the design-time environment that allows the design of a portal application, said design-time environment including

a Java Server Page design editor component to create JSP pages, and;

a webflow design editor component providing a graphical interface with a visual display of portal application flow indicating possible transitions between pages of the portal application, the webflow design editor component being used to create and update a webflow file using the graphical interface, the webflow file including

annotations, wherein some of the annotations declare possible destinations of a flow transition, and other annotations dictate what state is shared between which JSP pages;

~~providing a~~ wherein the run-time environment ~~that~~ runs said portal application, said run-time environment including

~~a control container and lifecycle driver component,~~

~~a control factory component, and,~~

an application flow and state management component ~~;and, allowing the system to be switched from the design time environment to the run time environment to automatically effectuate changes from one environment to the other~~ using the annotations of the webflow file to determine:

the state and current page of the portal application and

when to execute at least one of the JSP pages,

wherein the run-time environment deploys the at least one of the JSP pages as indicated by the application flow and management component;

wherein switching to the run-time environment includes enabling the user to deploy the portal application as per the webflow file and the JSPs, the webflow file and the JSPs being defined and modified for the deployment instance; and

wherein switching to the design time environment includes enabling the user to access to the Java Server Page design editor component to modify one of the JSPs or to access webflow design editor and update at least one of the annotations of the webflow file, wherein at least one webflow file is updatable and reusable for one or more the portal application runs; wherein at least one change made in one of the webflow file is dynamically reflected in the webflow editor component.

Claims 9-11 (Canceled)

12. (Currently amended) The method of claim 8 wherein the a control container and lifecycle driver component is used to determine the look-and-feel of the portal application interface.

13. (Currently amended) The method of claim 8 wherein the a control factory component uses a factory for control creation, and subsequently drives control lifecycles during portal application request handling.

Claim 14 (Canceled)

15. (Currently amended) A computer readable medium, including instructions stored thereon which when executed cause the computer to perform the method for software application development in a portal environment, comprising the steps of:

providing a framework comprising a design-time environment and a run-time environment, the framework adapted to switch between the design-time environment and the run-time environment;

~~providing a~~ wherein the design-time environment ~~that~~ allows the design of a portal application, said design-time environment including

a Java Server Page design editor component to create JSP pages, and,

a webflow design editor component providing a graphical interface with a visual display of portal application flow indicating possible transitions between pages of the portal application, the webflow design editor component being used to create and update a webflow file using the graphical interface, the webflow file including annotations, wherein some of the annotations declare possible destinations of a flow transition, and other annotations dictate what state is shared between which JSP pages ;

~~providing a~~ wherein the run-time environment ~~that~~ runs said portal application, said run-time environment including

~~a control container and lifecycle driver component,~~

~~a control factory component, and,~~

an application flow and state management component ~~;~~ ~~and, allowing the system to be switched from the design time environment to the run time environment to automatically effectuate changes from one environment to the other.~~ using the annotations of the webflow file to determine:

the state and current page of the portal application and

when to execute at least one of the JSP pages,

wherein the run-time environment deploys the at least one of the  
JSP pages as indicated by the application flow and management  
component;

wherein switching to the run-time environment includes enabling the user to deploy the  
portal application as per the webflow file and the JSPs, the webflow file and the JSPs  
being defined and modified for the deployment instance; and wherein switching to the  
design time environment includes enabling the user to access to the Java Server Page  
design editor component to modify one of the JSPs or to access webflow design editor  
and update at least one of the annotations of the webflow file;

wherein at least one webflow file is updatable and reusable for one or more the portal  
application runs; wherein at least one change made in one of the webflow file is  
dynamically reflected in the webflow editor component.

Claims 16-18 (Canceled)

19. (Currently amended) The computer readable medium of claim 15 wherein the a control container and lifecycle driver component is used to determine the look-and-feel of the portal application interface.

20. (Currently amended) The computer readable medium of claim 15 wherein the a control factory component uses a factory for control creation, and subsequently drives control lifecycles during portal application request handling.

Claims 21-24 (Canceled)

25. (New) The method of claim 8 further comprising the step of:

using the Java Server Page design editor to create or update embedded controls in a JSP page.

26. (New) The method of claim 8 further comprising the step of:

performing a visual test or debug of the application.

27. (New) The method of claim 8 further comprising the step of:

populating a control container at the portal server with business controls and presentation controls from a control factory.

28. (New) The method of claim 27 further comprising the step of:

displaying or otherwise executing the application, together with business controls and presentation controls.

29. (New) The method of claim 8 further comprising the step of:

periodically determining the current state of the application on the portal server, and parsing the webflow file to update the application display to the user.



30. (New)        The system of claim 1, further comprising using the Java Server Page design editor to create or update embedded controls in a JSP page.
31. (New)        The system of claim 1, further comprising performing a visual test or debug of the application.
32. (New)        The system of claim 1, further comprising populating a control container at the portal server with business controls and presentation controls from a control factory.
33. (New)        The system of claim 32, further comprising displaying or otherwise executing the application, together with business controls and presentation controls.
34. (New)        The system of claim 1, further comprising periodically determining the current state of the application on the portal server, and parsing the webflow file to update the application display to the user.
35. (New)        The computer readable medium of claim 15, further comprising using the Java Server Page design editor to create or update embedded controls in a JSP page.
36. (New)        The computer readable medium of claim 15, further comprising performing a visual test or debug of the application.
37. (New)        The computer readable medium of claim 15, further comprising populating a control container at the portal server with business controls and presentation controls from a control factory.

38. (New)        The computer readable medium of claim 37, further comprising displaying or otherwise executing the application, together with business controls and presentation controls.

39. (New)        The computer readable medium of claim 15, further comprising periodically determining the current state of the application on the portal server, and parsing the webflow file to update the application display to the user.

Respectfully submitted,

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